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#### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name: BIOGUARD® 1" SANITIZER TABS SILK TABS®

Product Use Description: Recreational Water Product

Chemical nature: Chlorinated Isocyanurates

Company: Bio-Lab, Inc.

BioGuard

P.O. Box 300002 Lawrenceville, GA 30049-1002

Telephone: (800) 859-7946

Emergency telephone

number:

CHEMTREC: (24 hours) 800-424-9300, 703-527-3887 Poison Control Center (Medical) :: (877) 800-5553

Chemtura Corporation Emergency Response: CHEMTURA: 800-292-5898

For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

Prepared by: <u>Product Safety Department</u>

(US) +1 866-430-2775

+011-886-2-2712-5668 MSDSRequest@chemtura.com

#### **SECTION 2. HAZARDS IDENTIFICATION**

#### **Emergency Overview**

-		
-		
Dan	COM	
Dan	261	

Form: tablet or Cylinder shaped sticks

Colour: blue

Odour: Chlorine

Hazard Summary

Corrosive Oxidizer

:

Causes serious eye damage.

Causes skin burns.

May be fatal if absorbed through skin.

May be fatal if inhaled.

Avoid breathing dust or vapor. Causes respiratory tract irritation.

Harmful if swallowed.

Do not get in eyes, on skin, or on clothing.

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**OSHA Hazards** 

THIS MATERIAL IS HAZARDOUS UNDER THE CRITERIA OF THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD 29CFR

1910.1200.

### **Potential Health Effects**

Primary Routes of Entry

: Skin contact Inhalation

Ingestion Eye contact

**Aggravated Medical** 

Condition

: Respiratory disorders

Skin disorders

Inhalation

: May be fatal if inhaled.

Causes respiratory tract irritation.

Skin

: Causes skin burns.

May be fatal if absorbed through skin.

On contact with moisture, this material readily hydrolyzes to acid which may result

in burns if not promptly removed.

Eyes

: Causes serious eye damage.

Ingestion

: Harmful or fatal if swallowed.

Chronic Exposure

: None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Hazardous components**

Component	CAS-No.	Weight percent
Trichloro-s-triazinetrione	87-90-1	94.05 %
Trade secret 002		3 - 8 %
Trade secret 141		< 2 %

#### **SECTION 4. FIRST AID MEASURES**

### First aid procedures

Inhalation

: Remove to fresh air.

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If person is not breathing, call 911 or an ambulance, then give artificial

respiration, preferably mouth-to-mouth, if possible. Call a POISON CENTER or doctor/ physician.

Skin contact : Remove contaminated clothing and shoes.

Rinse immediately with plenty of water for at least 15 minutes.

Call a POISON CENTER or doctor/ physician.

Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes.

Remove contact lenses, if present, after 5 minutes, then continue rinsing eye.

Call a POISON CENTER or doctor/ physician.

Ingestion : Call a physician or poison control centre immediately.

Have person sip a glass of water if able to swallow.

DO NOT induce vomiting unless directed to do so by a physician or poison

control center.

Do not give anything by mouth to a convulsing or unconscious person.

Notes to physician

Treatment Probable mucosal damage may contraindicate the use of gastric lavage.

#### **SECTION 5. FIRE-FIGHTING MEASURES**

### Flammable properties

Flash point : Remarks: not applicable

### Fire fighting

Suitable extinguishing media : Flood with large volumes of water.

Unsuitable extinguishing

media

: ABC powder Dry powder

Risk of violent reaction.

Further information : Do not let fire burn.

#### Protective equipment and precautions for firefighters

Specific hazards during fire

fighting

: Under extreme heat (greater than 400F), this product will evolve noxious chlorine

containing gases.

for fire-fighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

Thoroughly decontaminate fire fighting equipment including all fire fighting

wearing apparel after the incident.

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

Environmental precautions

: Do not flush into surface water or sanitary sewer system.

Methods for containment / Methods for cleaning up : Using appropriate protective clothing and safety equipment, contain spilled

material.

Do not add water to spilled material.

Using clean dedicated equipment, sweep and scoop all spilled material, contaminated soil, and other contaminated material and place into clean dry

containers for disposal.

Do not close containers containing wet or damp material. They should be left

open to disperse any hazardous gases that may form.

Additional advice

Do not use floor sweeping compounds to clean up spills.

Do not transport wet or damp material.

Treat recovered material as described in the section "Disposal considerations". Do not contaminate water, food or feed by storage or disposal or cleaning of

equipment.

#### SECTION 7. HANDLING AND STORAGE

Handling

Handling procedures

: Strong oxidizing agent.

Avoid contact with skin, eyes and clothing.

Avoid breathing dust.
Avoid breathing vapors.

Do not mix with other chemicals.

Mix only with water.

Never add water to this product.

Always add product to large quantities of water.

Use only clean and dry utensils.

Do not add this product to any dispensing devices containing remnants of any

other product. Such use may cause a violent reaction leading to fire or

explosion.

Contamination with moisture, organic matter or other chemicals may start a chemical reaction and generate heat, hazardous gas, possible fire and

explosion.

In case of contamination or decomposition, do not reseal container. If possible, isolate container in open air or well ventilated area.

Flood with large volumes of water.

Wash hands thoroughly with soap and water after handling and before eating,

drinking or using tobacco.

Do not handle until all safety precautions have been read and understood.

Storage

Requirements for storage areas and containers

Temperature not to exceed 52 C (125F) for 24 hours.

Store in original container.

Keep container closed when not in use.

Store in a cool, dry, well ventilated area away from heat or open flame.

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Keep out of reach of children. Keep away from animals.

### **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **Exposure Guidelines**

Components with workplace control parameters

Components / CAS-No.	Value / Basis / Update	Control parameters	<u>Further information</u>
Trade secret 141	TWA ACGIH 2007-01-01	2 mg/m3	
	STEL ACGIH 2007-01-01	6 mg/m3	
	TWA ACGIH 2008-01-01	2 mg/m3	
	STEL ACGIH 2008-01-01	6 mg/m3	

### **Engineering measures**

Engineering measures : Ensure that eyewash stations and safety showers are close to the workstation

location.

Use with adequate ventilation.

## Personal protective equipment

Eye protection : Goggles

Safety glasses with side-shields

Hand protection : Wear rubber gloves.

Respiratory protection : A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2

requirements must be followed whenever workplace conditions warrant a

respirator's use.

Hygiene measures : Wash contaminated clothing before reuse.

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#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** 

Form

: tablet or Cylinder shaped sticks

Colour

: blue

Odour

: Chlorine

Safety data

Flash point

: Note: not applicable

pH

: 3 - 3.5

at

77 °F (25 °C) Note: 1% Solution

Boiling point/boiling range

: Note: not applicable

Vapour pressure

: Note: Not Available

Density

: 0.88 - 0.96 g/cm3

Water solubility

: 12 g/l

Relative vapour density

: Note: Not Available

#### **SECTION 10. STABILITY AND REACTIVITY**

Conditions to avoid

: Remarks: High temperatures.

Poor ventilation. Contamination

Moisture/high humidity.

Materials to avoid

: Remarks: Avoid contact with water on concentrated material in the container. Avoid contact with easily oxidizable material; ammonia, urea, or similar nitrogen containing compounds; inorganic reducing compounds; floor sweeping compounds; calcium hypochlorite; other swimming pool/spa chemicals in their concentrated form; alkalis. Avoid contact with all other

chemicals.

Hazardous decomposition

products
Thermal decomposition

Note: Chlorine containing gases can be produced.

: 225 - 230 °C

Hazardous reactions

: Hazardous polymerisation does not occur.

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#### **SECTION 11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity : LD50: 809 mg/kg

Species: rat

Acute inhalation toxicity : Remarks: This material in the form as sold is not expected to produce

respiratory effects.

If ground or otherwise in a powdered form, effects similar to a corrosive

substance may occur.

May cause severe irritation of the respiratory tract with coughing, choking,

pain and possibly burns of the mucous membranes.

Acute dermal toxicity : LD50: > 2,000 mg/kg

Species: rabbit

Skin irritation : Remarks: Direct contact with wet material or moist skin may cause

severe irritation, pain and possibly burns.

Eye irritation Remarks: Causes serious eye damage.

Sensitisation

Trade secret 141 : Remarks: Did not cause sensitization on laboratory animals.

#### 12. ECOLOGICAL INFORMATION

Toxicity to fish

Trichloro-s-triazinetrione : LC50: 0.24 mg/l

Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout)

Trade secret 002 : LC50: > 1,000 mg/l

Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates. Trichloro-s-triazinetrione : LC50: 0.21 mg/l

Exposure time: 48 h

Species: Daphnia magna (Water flea)

Trade secret 002 : LC50: > 1,000 mg/l

Exposure time: 96 h

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Species: Mysid shrimp

EC50: > 485 mg/l Exposure time: 48 h

Species: Daphnia magna (Water flea)

Toxicity to algae

Trichloro-s-triazinetrione

EC50: 655 mg/l Exposure time: 96 h Species: Algae

### Further information on ecology

Additional ecological

: Toxic to fish.

information

Toxic to aquatic organisms.

Do not discharge effluent containing this product into lakes, streams, ponds or estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant

Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or

Regional Office of the EPA.

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

Further information Dispose of waste material in compliance with all federal, state, and

local regulations.

If these wastes cannot be disposed of by use according to label instructions, contact your Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance. For registered pesticides, contact your State

Pesticide Agency.

Do not contaminate ponds, waterways or ditches with chemical or

used container.

Do not put product, spilled product, or filled or partially filled

containers into the trash or waste compactor.

Contact with incompatible materials could cause a reaction or fire. Improper disposal of excess product, spray mixture or rinsate is a

violation of Federal Law.

Contaminated packaging : Do not re-use empty containers.

Rinse thoroughly before discarding in trash.

Offer rinsed packaging material to local recycling facilities.

#### **SECTION 14. TRANSPORT INFORMATION**

DOT

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UN number : 3077

Description of the goods Environmentally hazardous substances, solid, n.o.s.

: (Trichloro-s-triazinetrione)

Revision Date: 12/07/2010

Class

: 9

Packing group

: III

ERG Code

: 171

**IATA** 

Version: 1.2

UN number : 3077

Description of the goods Environmentally hazardous substance, solid, n.o.s.

(Trichloro-s-triazinetrione)

Class

: 9

Packing group

: III

**IMDG** 

UN number

: 3077

Description of the goods

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Print Date: 12/19/2012

(Trichloro-s-triazinetrione)

Class

Packing group

: III

EmS Letter 1

EmS Letter 2

: F-A

: S-F

Marine pollutant

: yes

Trichloro-s-triazinetrione

Not recommended for shipment by air

Not regulated by DOT and TDG if shipped or transported in packaging less than 400KG by road and/or rail.

### SECTION 15. REGULATORY INFORMATION

**OSHA Hazards** 

: This material is hazardous under the criteria of the Federal OSHA Hazard

Communication Standard 29CFR 1910.1200.

SARA 311/312 Hazards

: Acute Health Hazard

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Reactivity Hazard

Fire Hazard

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The components of this product are reported in the following inventories: TSCA

Note: Listed

#### **SECTION 16. OTHER INFORMATION**

**Further information** 

HMIS Classification : Health hazard: 3

Flammability: 0 Physical hazards: 1

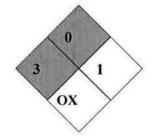
PPI:Ask supervisor or safety specialist for handling instructions

NFPA Classification : Health hazard: 3

Fire Hazard: 0 Reactivity Hazard: 1

Specific hazards: OX Class 1

Oxidizer.



#### Other Emergency Phone Number

Latin America:	Brazil	+52 113 711 91 44
	All other countries	+44 (0)208 762 8322
Mexico:		+52 555 004 87 63

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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